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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,085	11/20/2003	HUNG-JEN CHU	11399-US-PA	1084

31561 7590 09/12/2005

JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE  
7 FLOOR-1, NO. 100  
ROOSEVELT ROAD, SECTION 2  
TAIPEI, 100  
TAIWAN

EXAMINER
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PARKER, KENNETH

ART UNIT	PAPER NUMBER
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2871

DATE MAILED: 09/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/707,085

**Applicant(s)**

CHU ET AL.

**Examiner**

Kenneth A. Parker

**Art Unit**

2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 16 June 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-9 is/are rejected.
- 7) ☒ Claim(s) 6 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

**Claims 1-3, 4-5, 7-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Sekine 6580486.**

The Sekine reference shows regarding claim 1 a liquid crystal display device, comprising:

a first substrate 60 having a display region and a non-display region around the periphery of the display region (see figure 7, the display region shown by the inner rectangle);

a second substrate (shown as 20 in the prior art, however applicable to each

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embodiment as it shows the basic structure modified by the specific embodiments) ;

a liquid crystal layer sandwiched between the first substrate and the second substrate 78 ;

and a first shading film set between the first substrate and the liquid crystal layer within the non-display region of the first substrate (any of films 102, 101, 66 of figure 10, 102, 101 or 66 of figure 9).

The reference shows regarding claim 2 the liquid crystal display device of claim 1, wherein the first shading film covers over the non-display region in the same manner as applicants film does (in that it partially covers), so it is presumed to meet the language "covers over".

The reference shows regarding claim 3 the liquid crystal display device of claim 1, further comprises a plurality of lead lines positioned over the non-display region of the first substrate (the d numbers of figures 7-8, which correspond to number 66 of figures 9-10).

The reference shows regarding claim 4. The liquid crystal display device of claim 3, wherein the first shading film is positioned over the gap between neighboring lead lines within the non-display region and the first shading film and the lead lines are electrically isolated from each other and located at different height levels ( by construing 72 as the first shading film, 66 meets the limitation of the second shading

film, alternatively every other).

The reference shows regarding claim 5 the liquid crystal display device of claim 3, further comprises a second shading film within the non-display region set between neighboring lead lines such that the second shading film is electrically isolated from them (by construing 72 as the first shading film, 66 meets the limitation of the second shading film, alternatively every other).

The reference shows regarding claim 7 the liquid crystal display device of claim 1, wherein the first substrate includes at least a thin film transistor with a gate, a source and a drain (inherently part of any TFT).

The reference shows regarding claim 8 the liquid crystal display of claim 7, wherein the first shading film and the source/drain are fabricated using the same film material (film for 140 and 70 is the same as the source drain material).

The reference shows regarding claim 9 the liquid crystal display of claim 7, wherein the first shading film and the gate are fabricated using the same film material (film 101 is of the same layer as the gate line).

**Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al 6097457.**

The reference shows regarding claim 1 a liquid crystal display device, comprising:

a first substrate (shown as 10 in the prior art, however applicable to each embodiment as it shows the basic structure modified by the specific embodiments) having a display region and a non-display region around the periphery of the display region (see figure 5, the display region shown by the matrix and the non-display region having stripes);

a second substrate (shown as 20 in the prior art, however applicable to each embodiment as it shows the basic structure modified by the specific embodiments) ;

a liquid crystal layer sandwiched between the first substrate and the second substrate (described in column 1, lines 15-35 in the description of the prior art, however applicable to each embodiment as it describes the basic structure modified by the specific embodiments) ;

and a first shading film set between the first substrate and the liquid crystal layer within the non-display region of the first substrate (film 43 of figure 5).

The reference shows regarding claim 2 the liquid crystal display device of claim 1, wherein the first shading film covers over the non-display region.

The reference shows regarding claim 3 the liquid crystal display device of claim 1, further comprises a plurality of lead lines positioned over the non-display region of the

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first substrate (shown in the cover figure as 31-1-4).

The reference shows regarding claim 4 the liquid crystal display device of claim 3, wherein the first shading film is positioned over the gap between neighboring lead lines within the non-display region and the first shading film and the lead lines are electrically isolated from each other and located at different height levels (as is shown, and required to be at different heights and isolated, or the device would be shorted).

***Allowable Subject Matter***

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: None of the prior art taught or suggested the claimed device where the first shading film is set over the gap between the second shading film and neighboring lead lines, and the first shading film is located at a different height level from the second shading film and the lead lines, and electrically isolated from them. Note that the second shading film is between the neighboring lead lines.

***Election/Restrictions***

Applicant's election without traverse of group 1 in the reply filed on 6/16/05 is acknowledged.



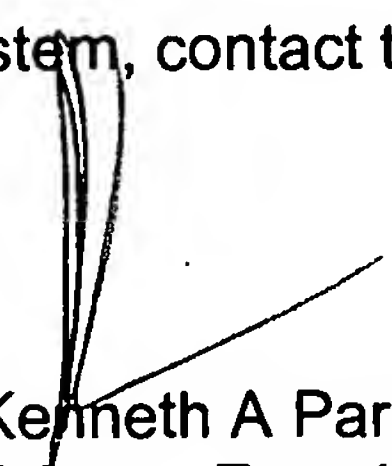
***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth A. Parker whose telephone number is 571-272-2298. The examiner can normally be reached on M-F 10:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kenneth A Parker  
Primary Examiner  
Art Unit 2871